

FIG. 1(a)

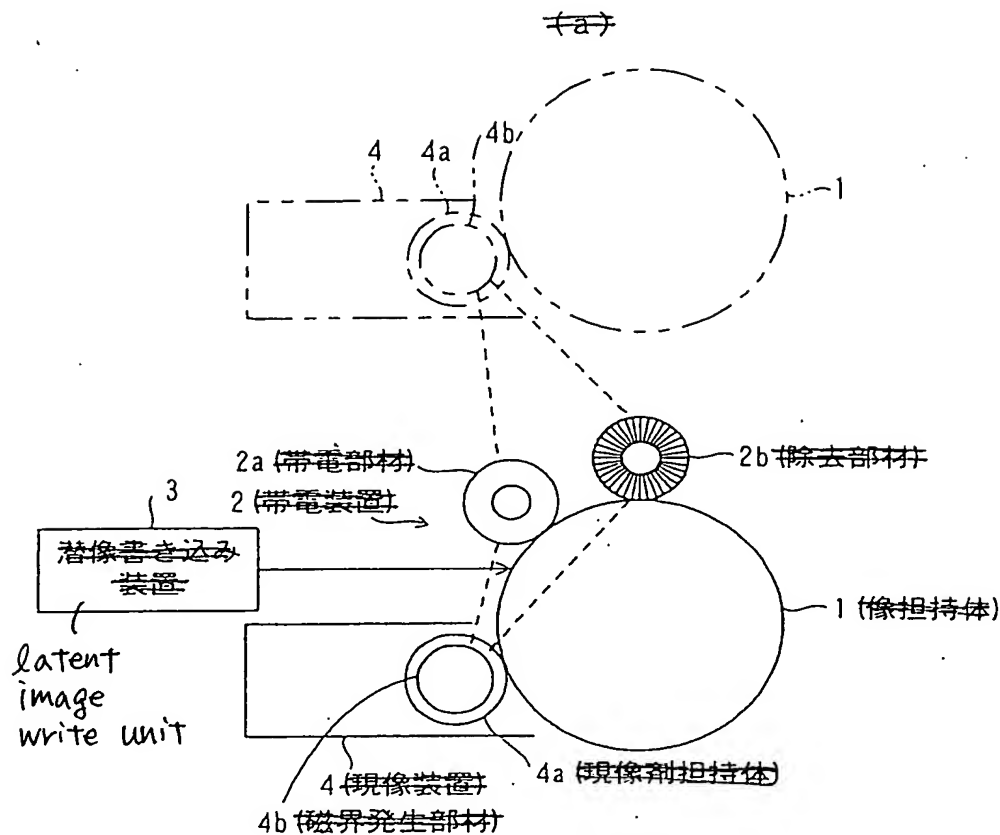


FIG. 1(b)

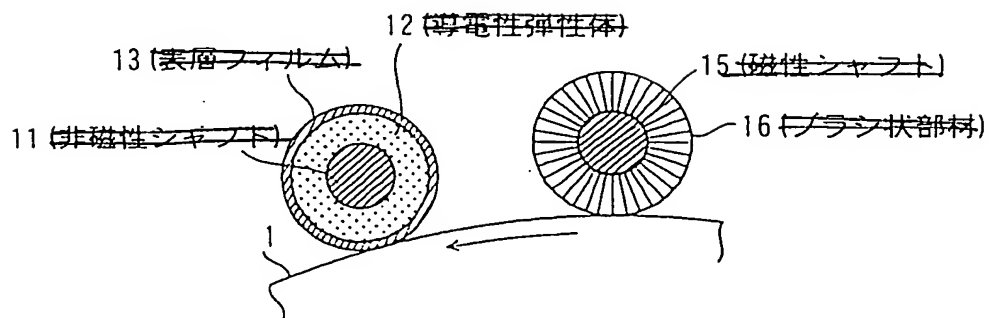


Fig. 2

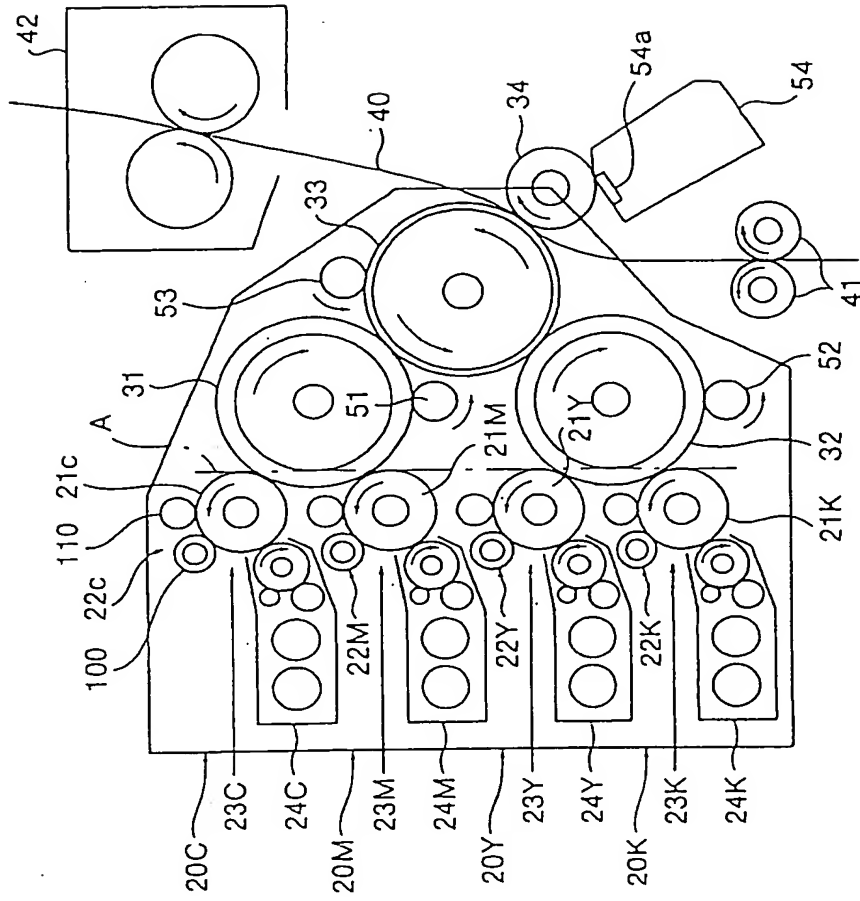


Fig. 3

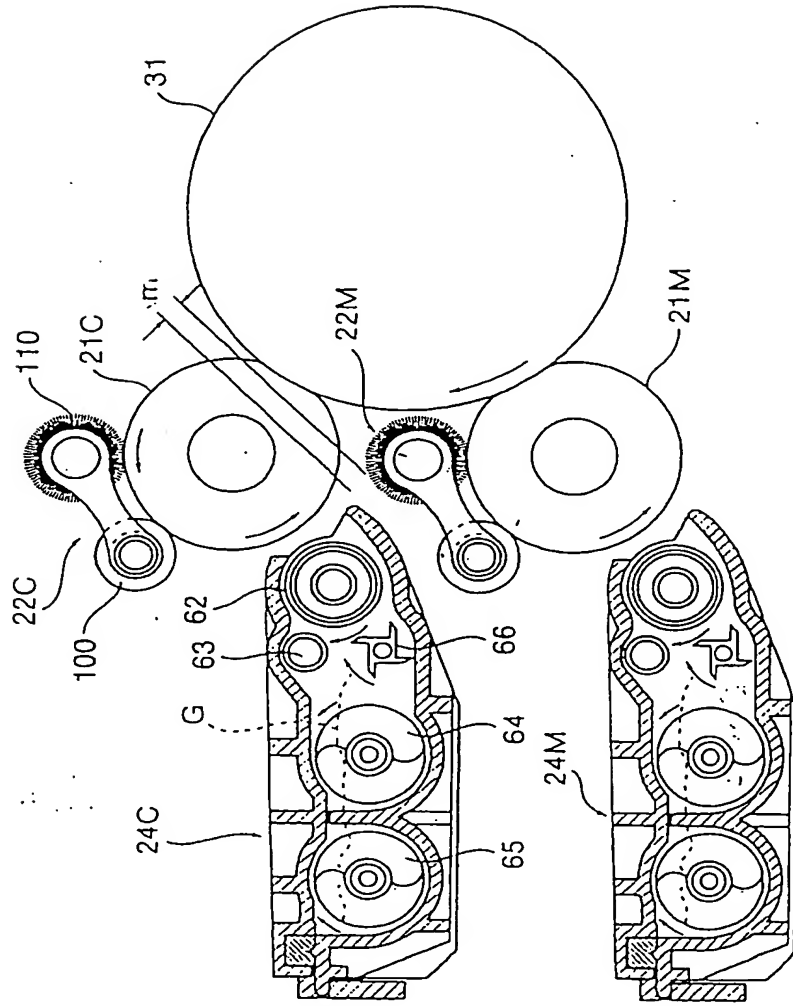
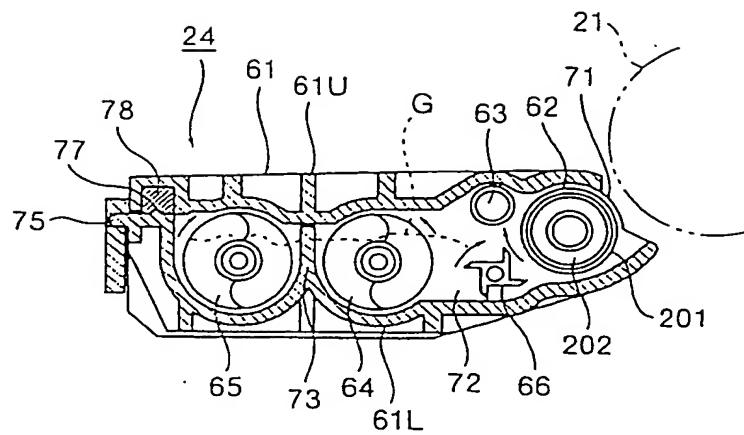


FIG. 4



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FIG. 5

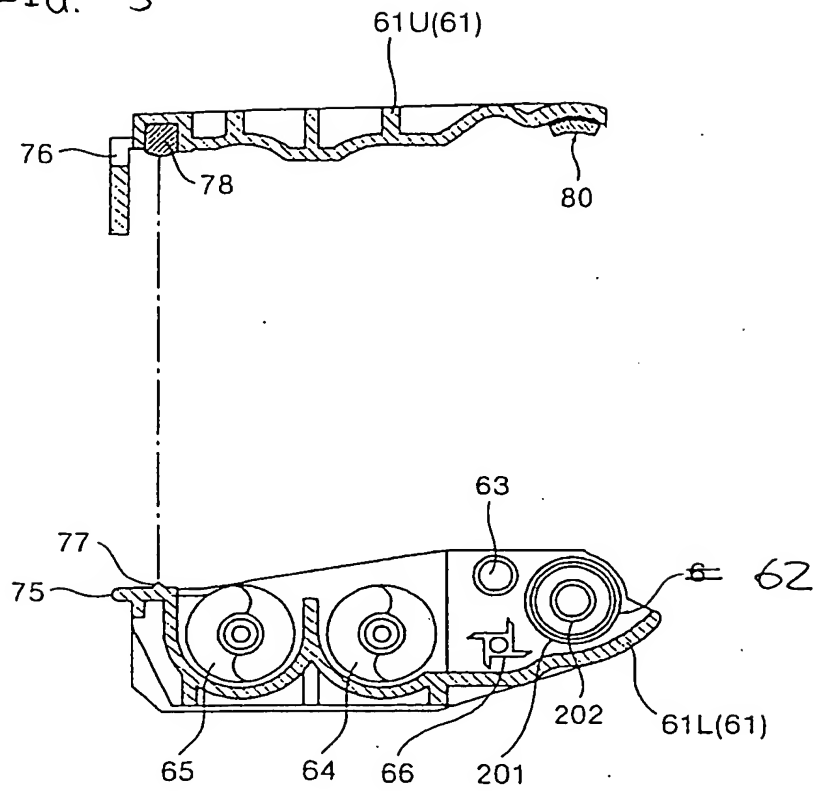


FIG. 6

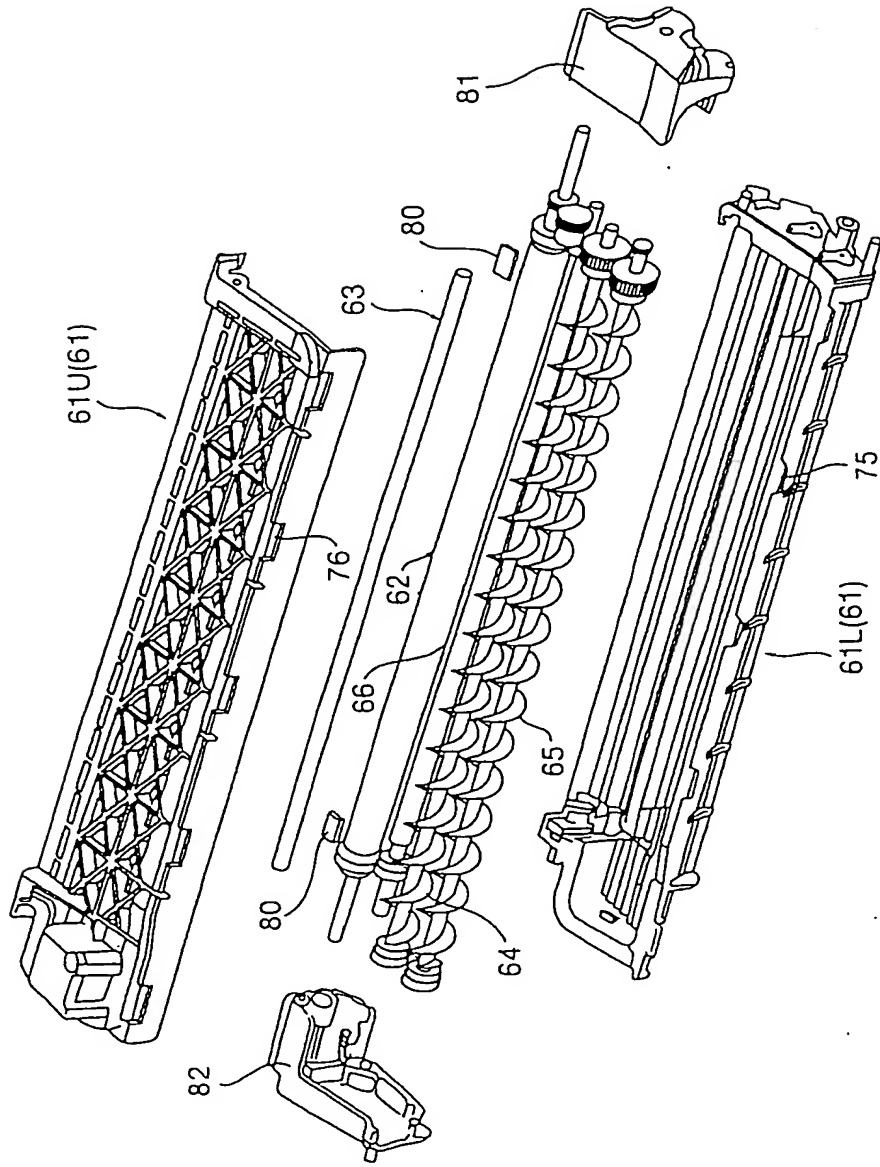
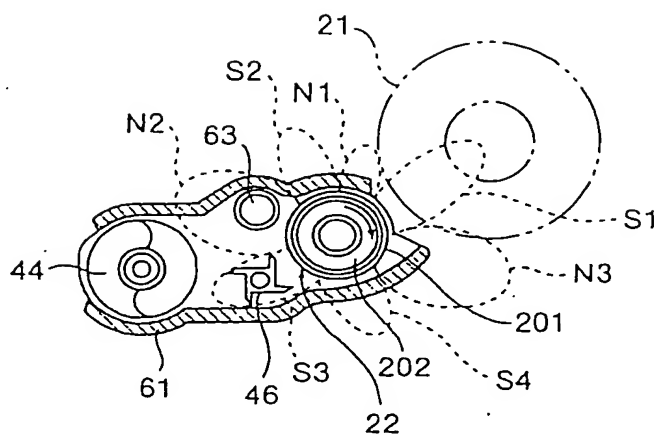


FIG. 7



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FIG. 8(a)

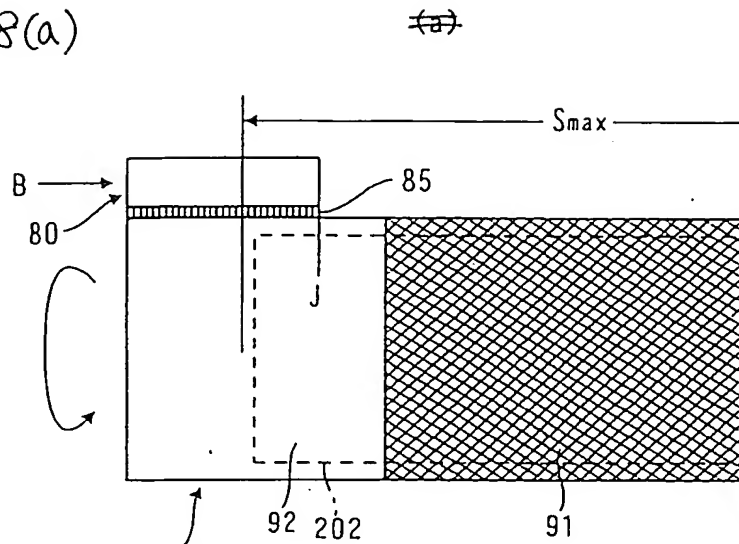
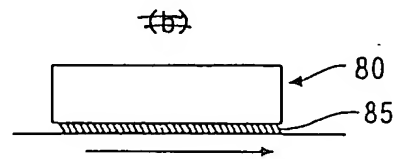


FIG 8(b)



~~FIG. 9(a)~~ FIG. 9(a)

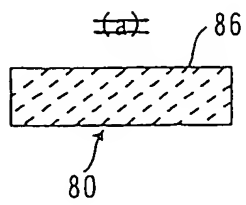


FIG. 9(b)

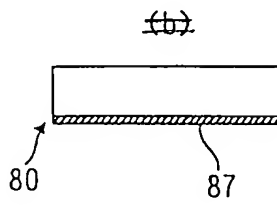


FIG. 9(c)

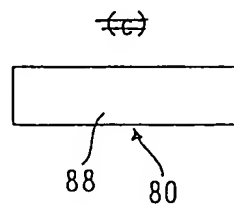


FIG. 10(a)

~~(a) 実施の形態モデル~~

model according to first embodiment

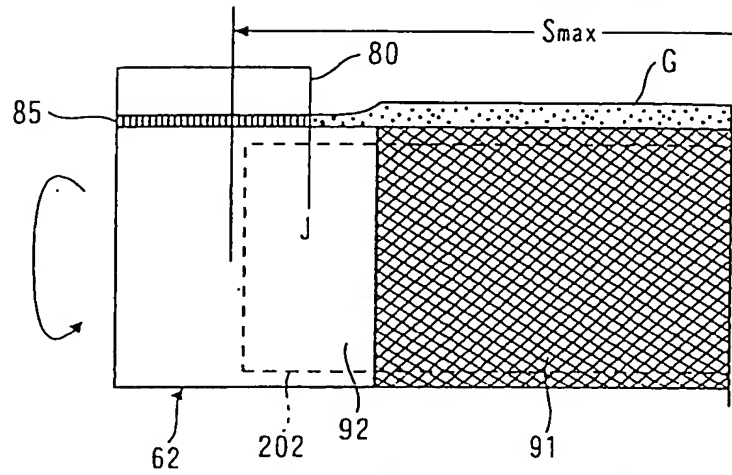
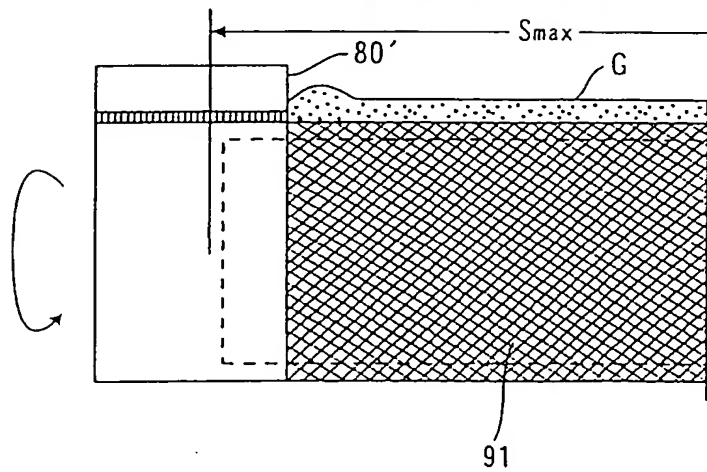


FIG. 10(b)

~~(b) 比較の形態モデル~~

comparative model



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FIG. 11(a)

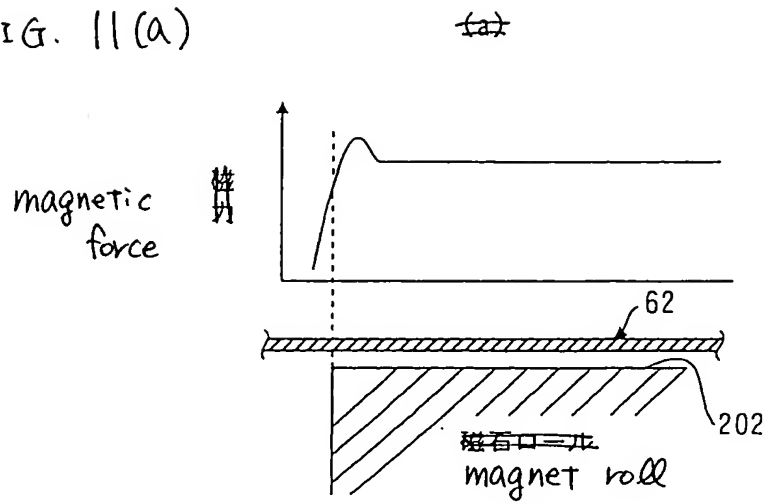
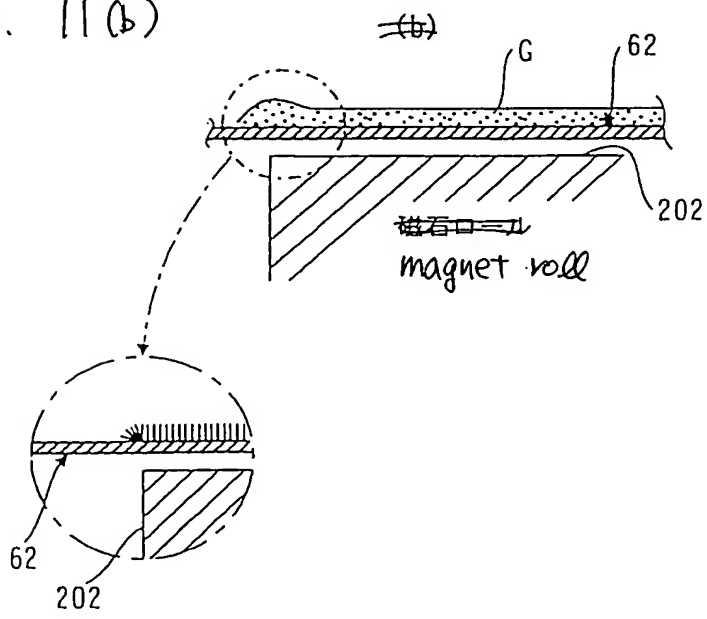


FIG. 11(b)



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FIG. 12 (a)

~~(a)~~

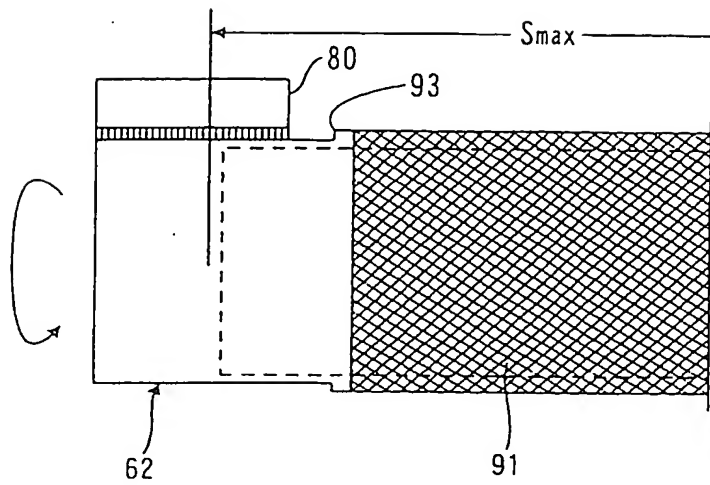


FIG. 12 (b)

~~(b)~~

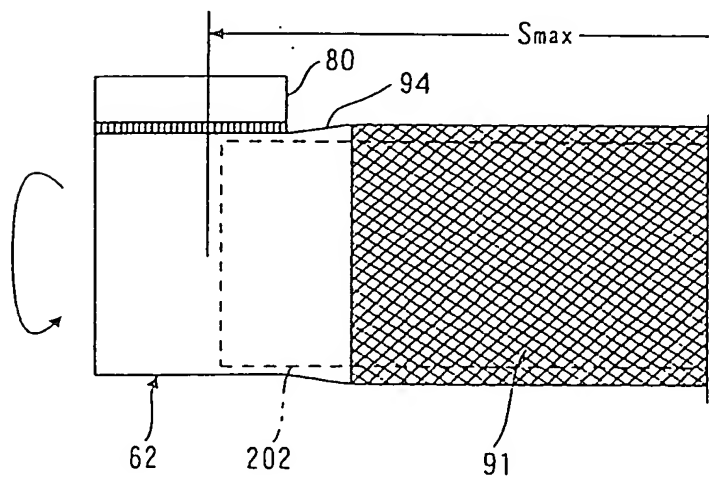


FIG. 13

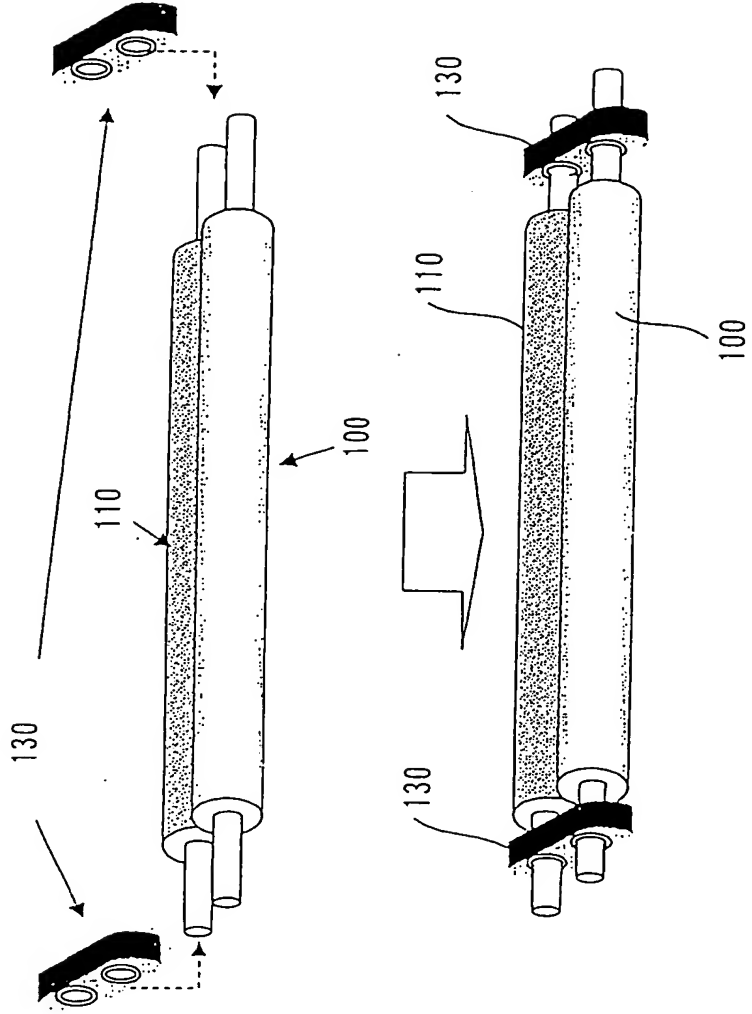


FIG. 14(a)

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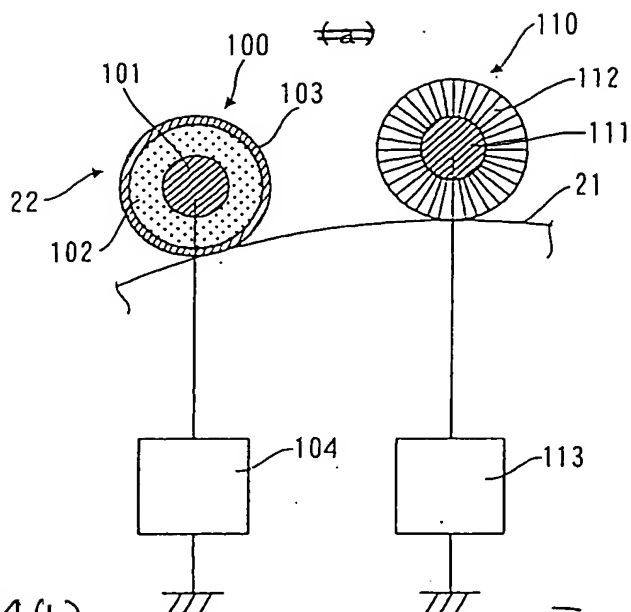


FIG. 14(b)

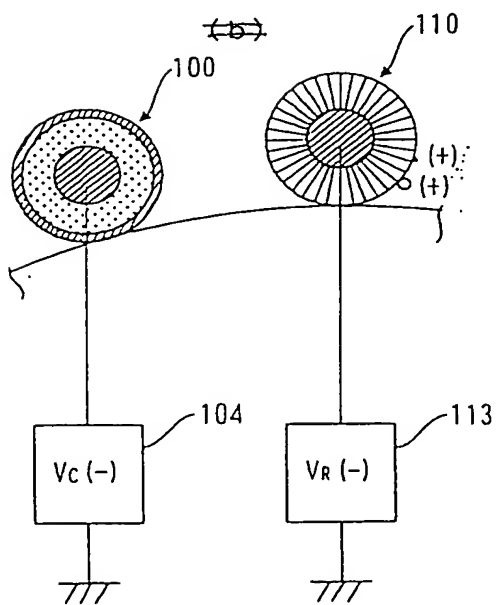


FIG. 14(c)

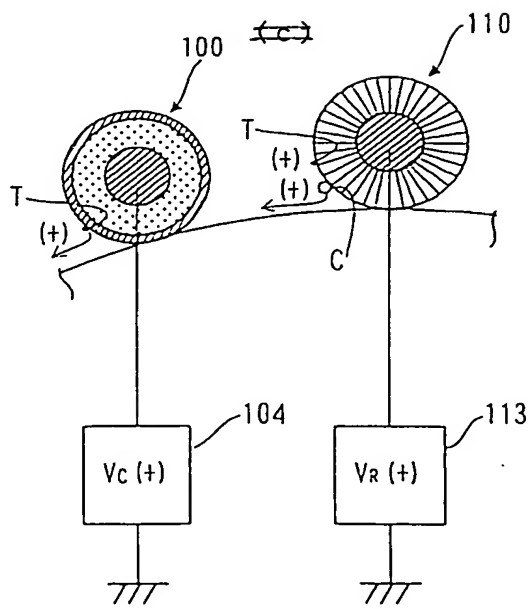


FIG. 15(a)

end part spot caused by BCO/carryer scatter
 ● BCO/キャリヤ飛散による端部斑点
 paper end part position

		用紙 端部位置	用紙端部～プラスチック端部 距離		
			3mm	4mm	5mm
(a) 薄層域規制 位置～プラスチック 端部距離	0mm	×	○	△	△
	1mm	—	△	○	○
	2mm	—	△	○	○

distance between
paper end part
and
plast end part

distance
between
thin layer
area
regulation
position
and
plast
end
part

FIG. 15(b) fogging at upper end part of photoconductor drum
 ● 感光体ドラム上端部カブリ
 paper end part position

		用紙 端部位置	用紙端部～プラスチック端部 距離		
			3mm	4mm	5mm
(b) 薄層域規制 位置～プラスチック 端部距離	0mm	×	△	△	△
	1mm	—	△	○	○
	2mm	—	○	○	○

※プリント中シャットダウン時、テープ転写

FIG. 15(c) dirty level of driver gear in periphery of developing roll end part
 ● 現像口＝ル端部周辺駆動ギア汚れレベル

paper end part position		用紙 端部位置	用紙端部～プラスチック端部 距離		
			3mm	4mm	5mm
(c) 薄層域規制 位置～プラスチック 端部距離	0mm	×	△	○	○
	1mm	—	○	○	○
	2mm	—	○	○	○

shut down during print,
tape transfer

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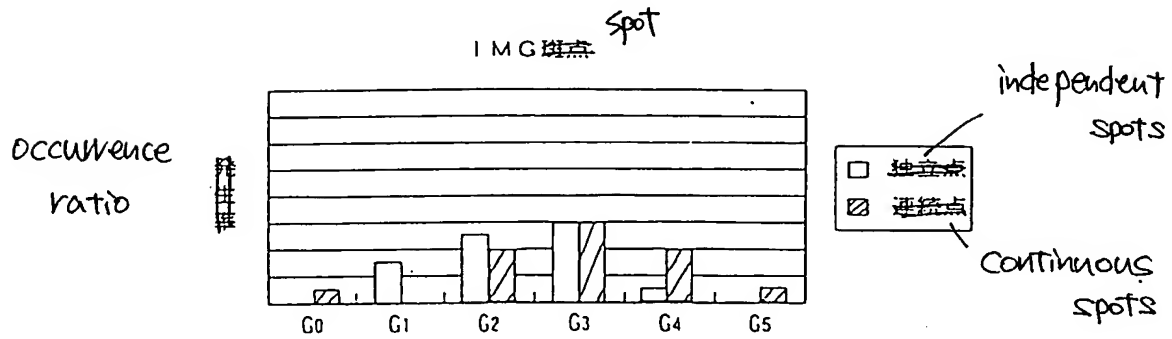
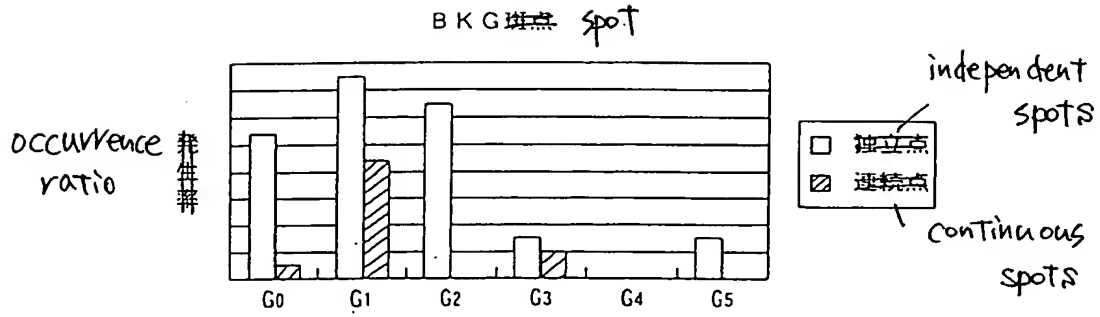
FIG. 16

charging shaft

~~帯電シフト~~ : SUM

~~サフレスシフト~~ : SUM

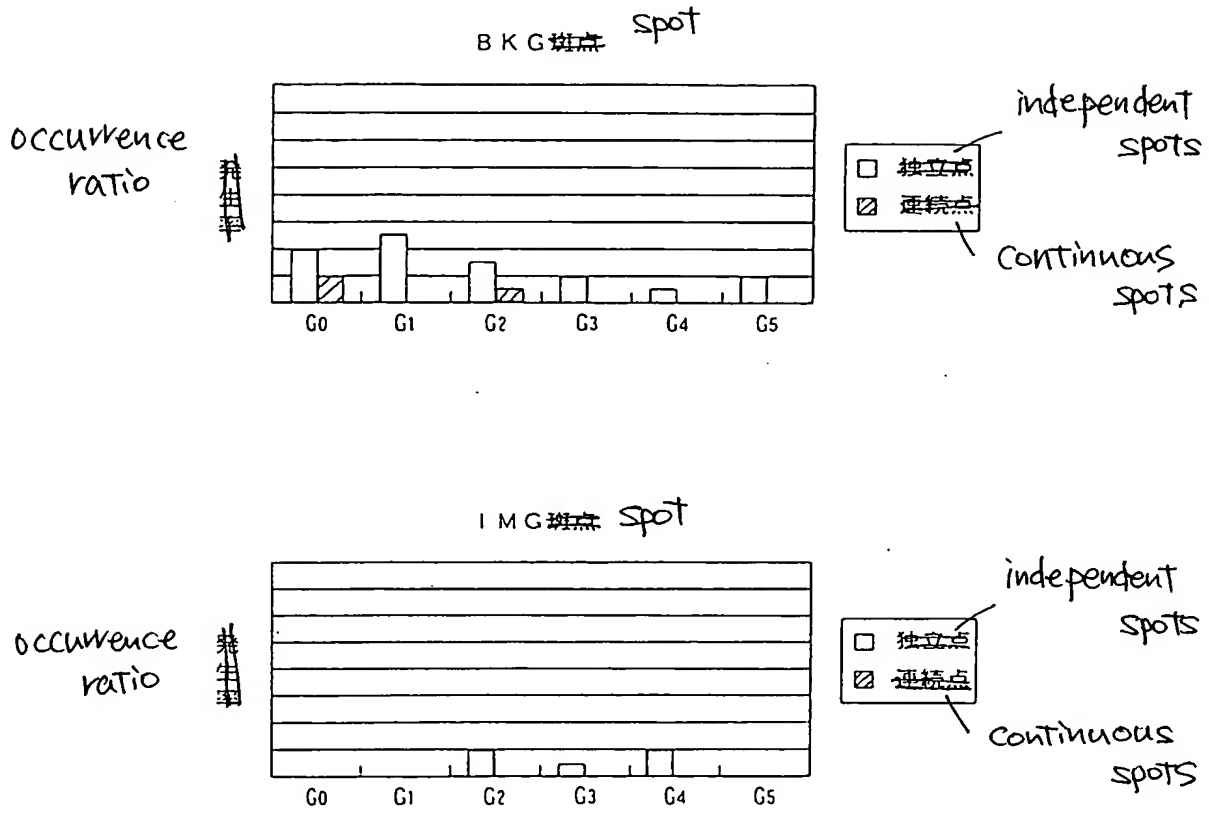
refresher shaft



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FIG. 17

charging shaft
~~充電シャフト~~ : SUS303Cu
~~リフレッシュシャフト~~ : SUM
 refresher shaft



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Fig. 18

charging shaft

~~帯電シャフト~~: SUS303Cu

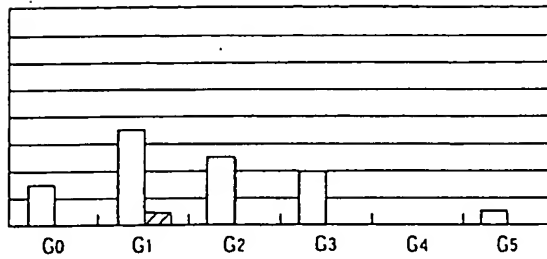
~~サライツシャフト~~: SUS303Cu

refresher shaft

BKG ~~斑点~~ spot

occurrence ratio

発生率



独立点
連続点

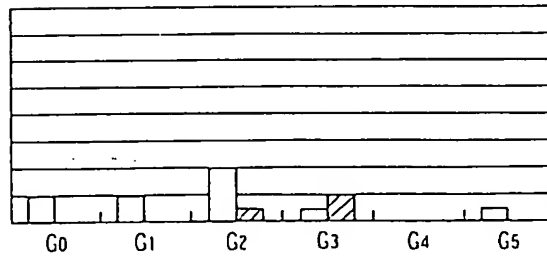
independent spots

continuous spots

IMG ~~斑点~~ spot

occurrence ratio

発生率



独立点
連続点

independent spots

continuous spots

spot classification
by phenomenon

random spots

~~ランダム~~ 斑点

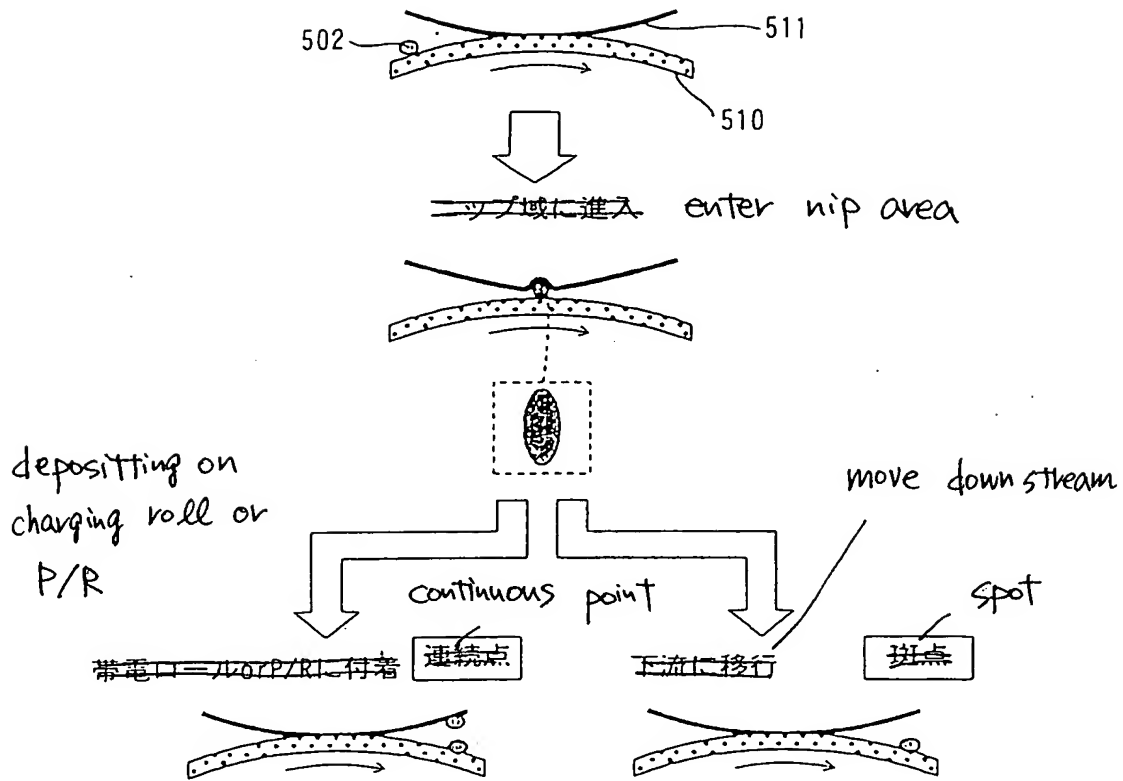
運送点

帯電口=ル、
PZリッチ

charging roll,
P/R pitch

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FIG. 20



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~~Fig. 21~~ FIG. 21 (a)

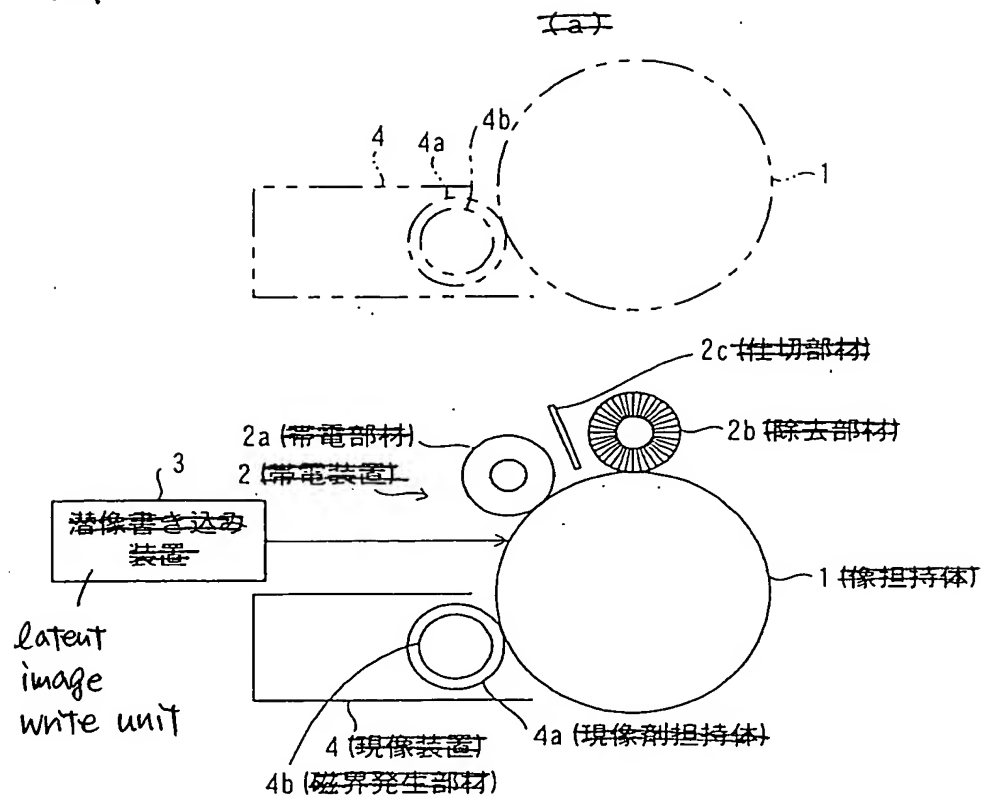


Fig. 22 (a)

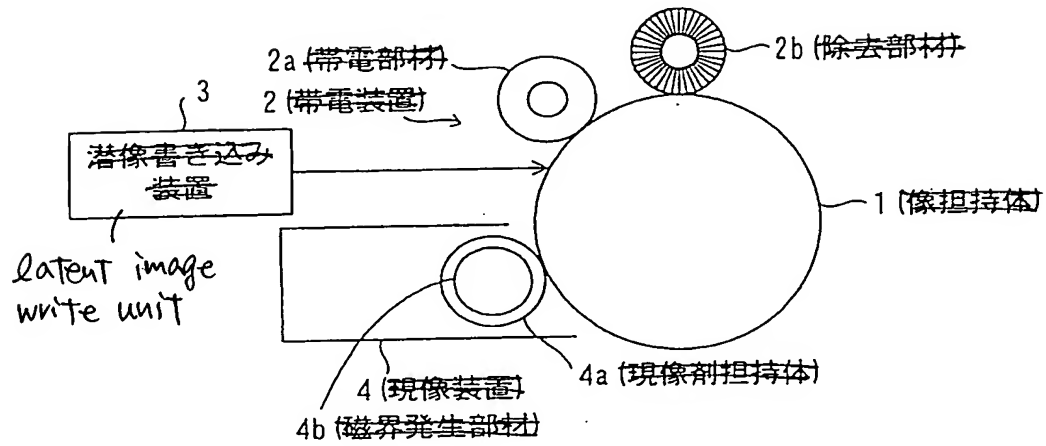
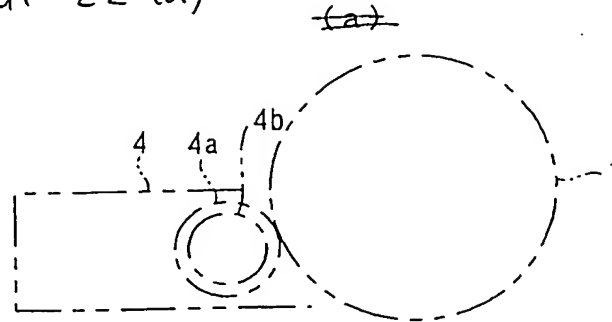
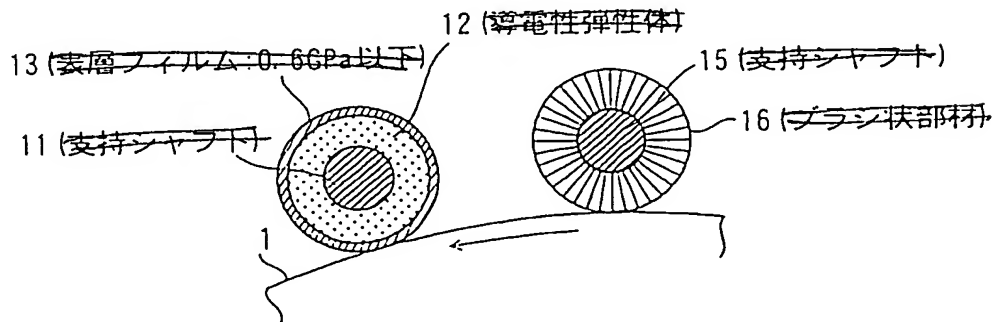


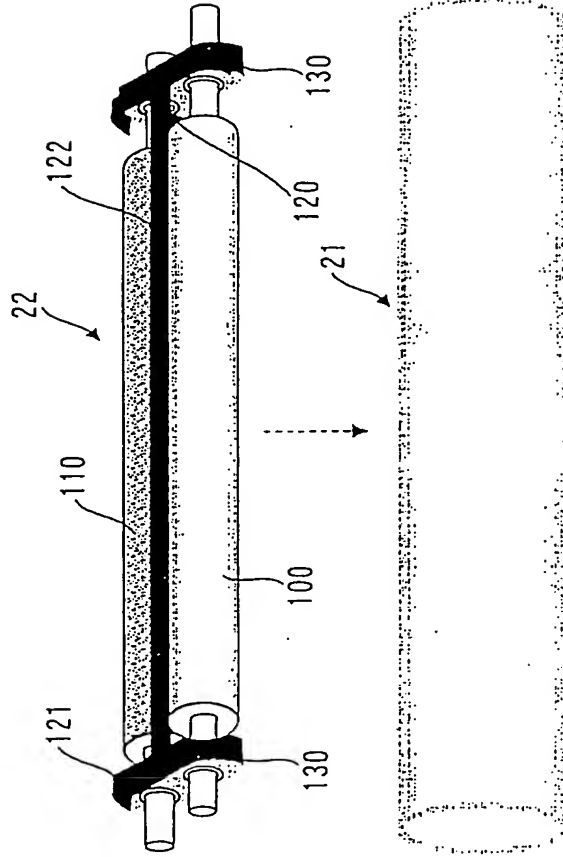
Fig. 22 (b)



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FIG. 24



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FIG. 25(a)

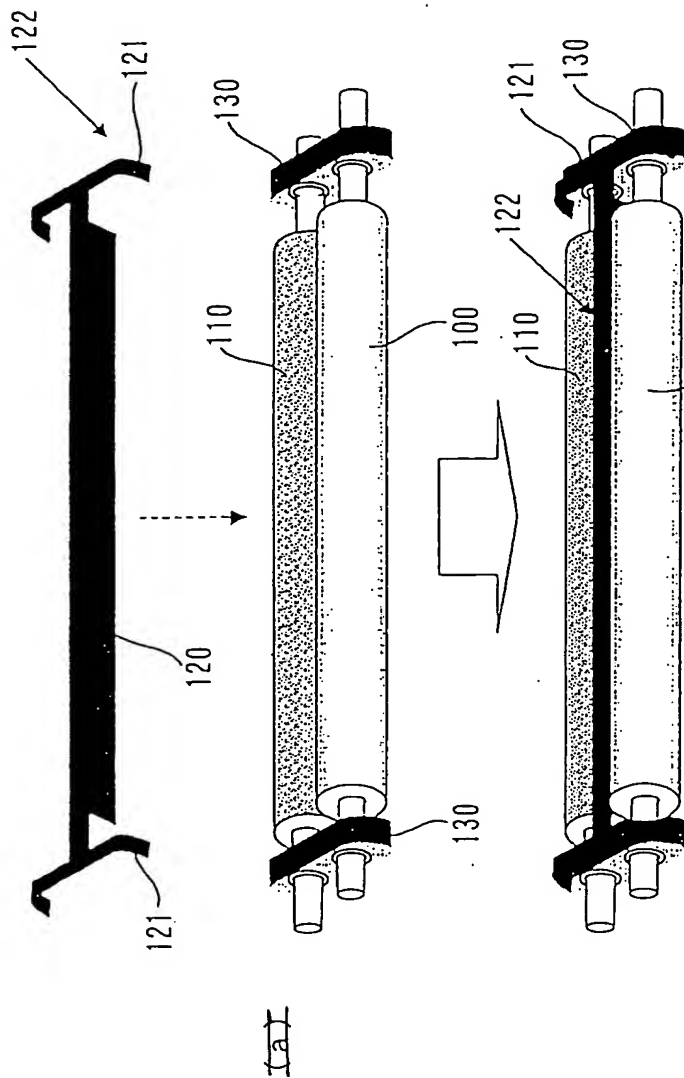
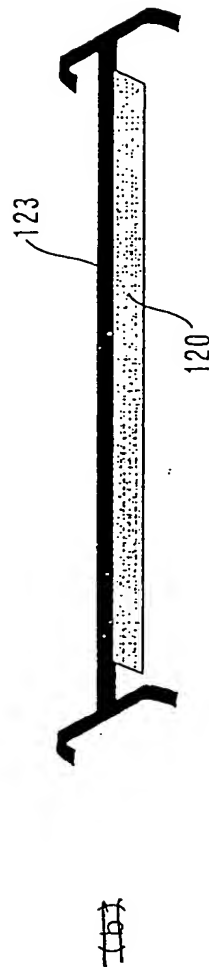


FIG. 25(b)



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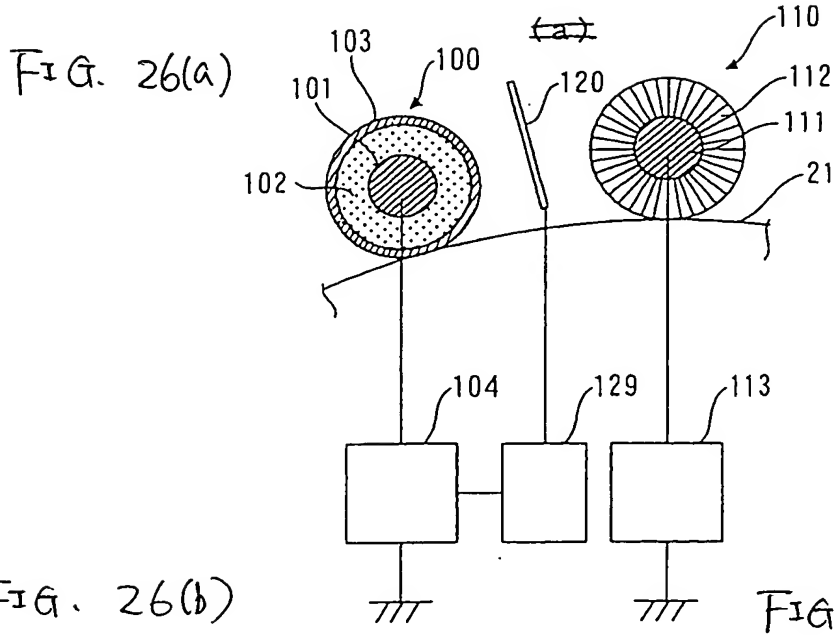


FIG. 26(b)

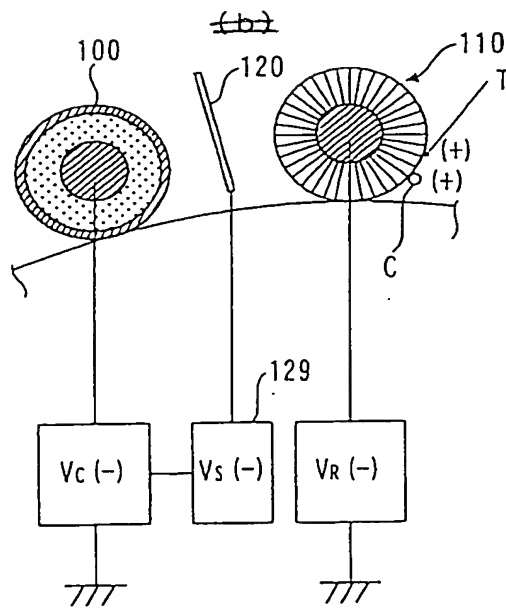


FIG. 26(c)

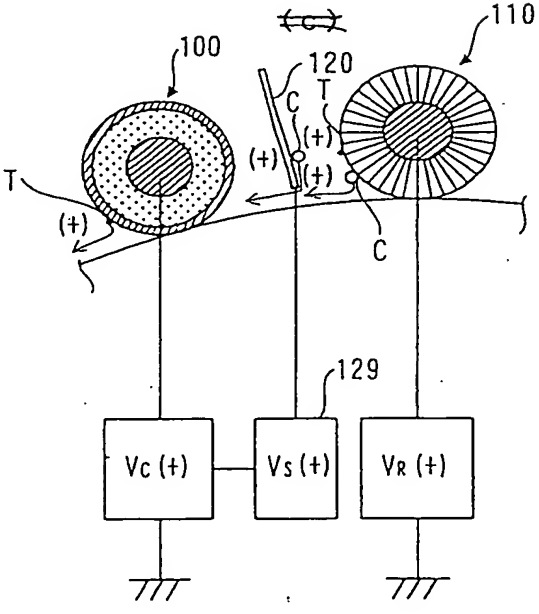


FIG. 26(a) FIG. 26(b) FIG. 26(c)

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FIG. 27(a)

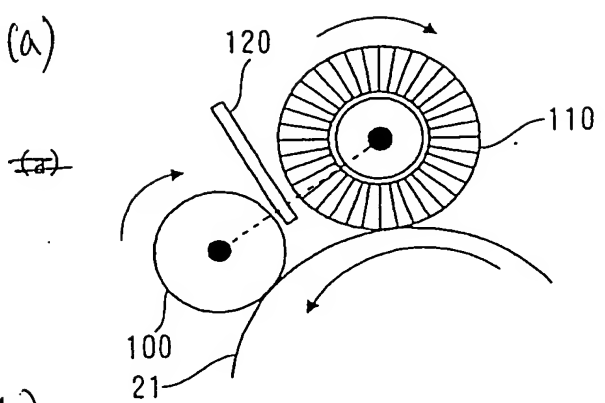


FIG. 27(b)

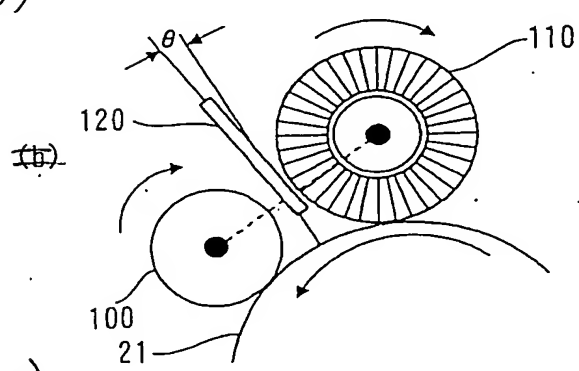
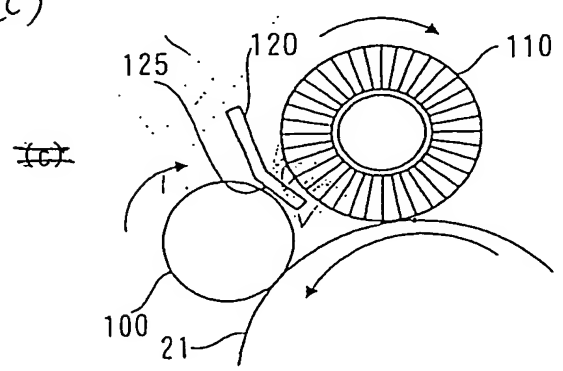


FIG. 27(c)



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FIG. 28(a)

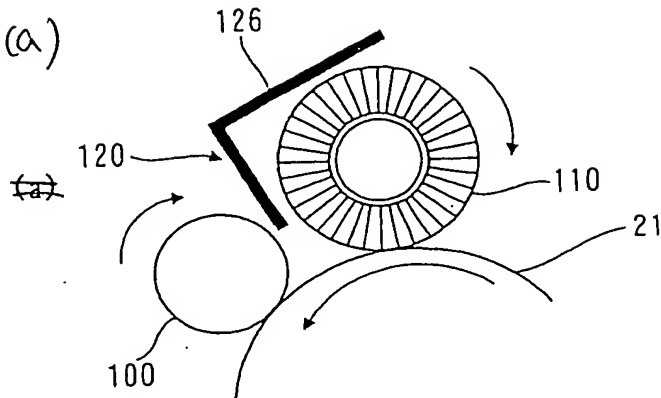


FIG. 28(b)

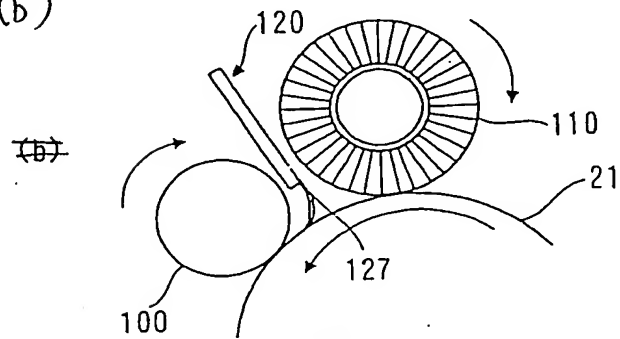
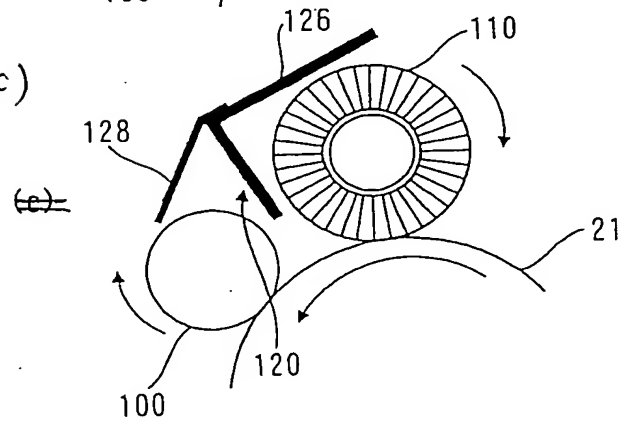


FIG. 28(c)



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FIG. 29(a)

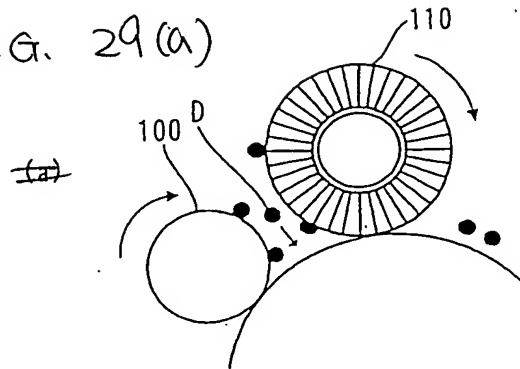


FIG. 29(b)

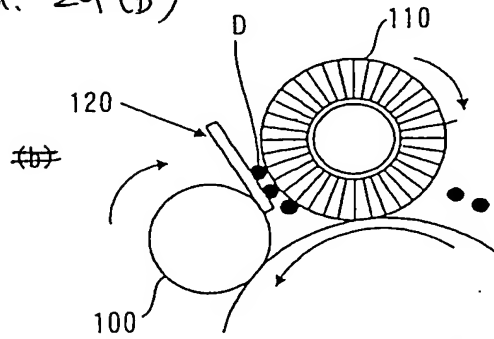
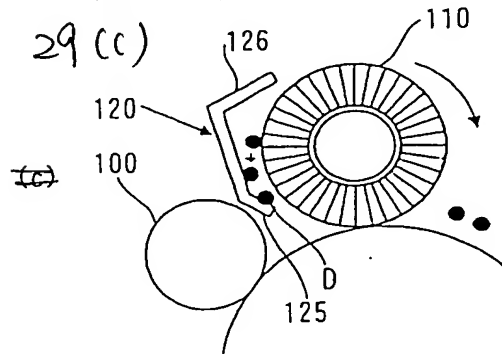


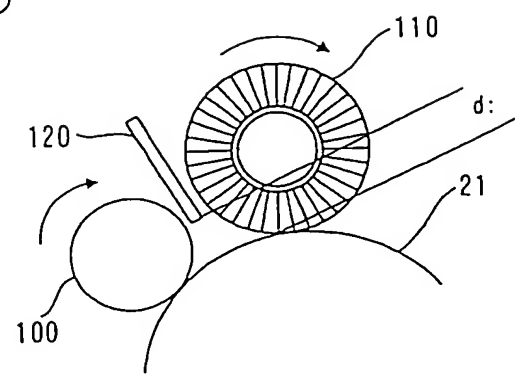
FIG. 29(c)



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FIG. 30



contact

d (mm)	斑点発生 有無
0 (接触)	○
0.5	○
1.0	○
2.0	○
3.0	○
4.0	×

occurrence of spot

FIG. 31

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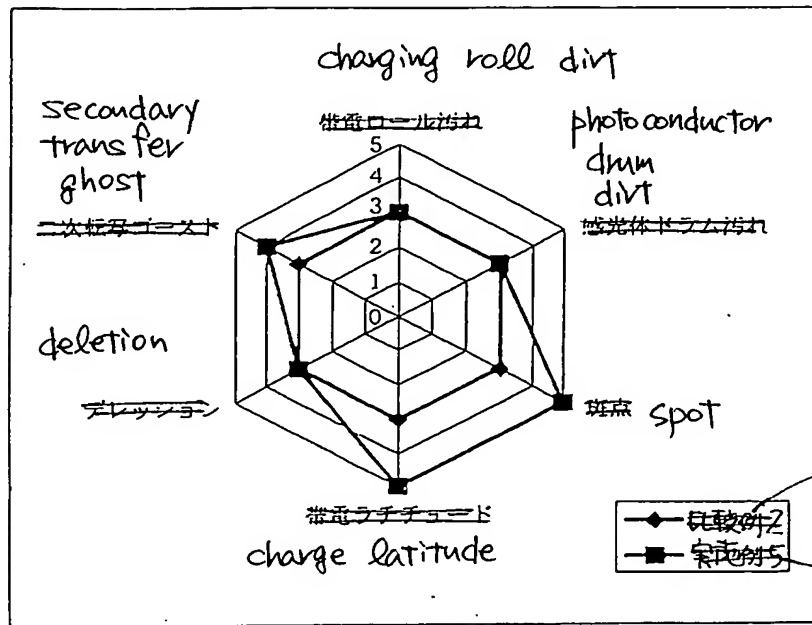


FIG. 32

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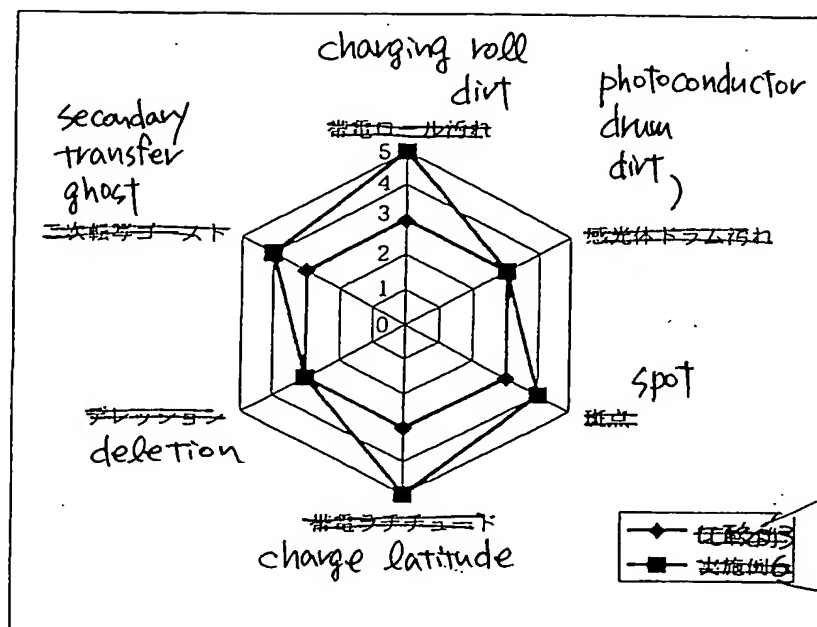


FIG.33

